

WHAT IS CLAIMED IS:

1. A product for promoting the adherence of *Lactobacillus acidophilus* to the surface of skin or mucosa, the product comprising a substrate and a botanical compound capable of increasing the adherence of *Lactobacillus*  
5 *acidophilus* to the surface of skin or mucosa by at least about 50%.

2. The product as set forth in claim 1, wherein the product is a wipe comprising a fibrous wipe substrate.

3. The product as set forth in claim 1, wherein the product is an absorbent article comprising an absorbent substrate.

4. The product as set forth in claim 1 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, Ginseng, Calendula (Marigold), Ceramide Complex, Comfey Leaves, Cromoist 0-25, Cromoist HYA,  
5 Dandelion, Devil's Claw, Dong Quai, Drago-Oat Active, Echinacea, Gingko Biloba, Glucosamine, Goldenseal, Gotu Kola, Grape Seed, Green Tea, Hydrolite-5, Hydrosoy 2000 SF, Horse Chestnut, Milk Thistle, Willowbark, Soluble Wheat Protein, Spirulina, St. John's Wort, White Mistle Toe, Witchhazel, and  
10 Yucca.

5. The product as set forth in claim 1 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, American Ginseng, Calendula (Marigold), Ceramide Complex, Comfey Leaves, Cromoist 0-25, Cromoist HYA,  
5 Dandelion, Devil's Claw, Dong Quai, Drago-Oat Active, Echinacea Dry Aq., Gingko Biloba, Ginseng GR 471 Hydro, Glucosamine 99, Goldenseal, Gotu Kola PG 5:1, Grape Seed, Green Tea, Hydrolite-5, Hydrosoy 2000 SF, Marron D'Inde (Horse Chestnut), Milk Thistle, Nab Willowbark Extr., Soluble  
10 Wheat Protein, Spirulina, St. John's Wort W/S, White Mistle Toe, Witchhazel Distillate, Witchhazel GW, Yucca 70, and Yucca Extr. Powder 50%.

6. The product as set forth in claim 1 wherein the botanical compound is selected from the group consisting of Calendula (Marigold), Ceramide Complex, Echinacea Dry Aq., Grape Seed, Spirulina, Witchhazel GW, and Yucca 70.

7. The product as set forth in claim 1 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, American Ginseng, Calendula (Marigold), Ceramide Complex, Comfey Leaves, Cromoist 0-25, Cromoist HYA,  
5 Dandelion, Devil's Claw, Dong Quai, Drago-Oat Active, Ginseng GR 471 Hydro, Glucosamine 99, Gotu Kola PG 5:1, Grape Seed, Hydrolite-5, Hydrosoy 2000 SF, Marron D'Inde (Horse Chestnut), Milk Thistle, Soluble Wheat Protein, Spirulina, Witchhazel Distillate, and Witchhazel GW.

8. The product as set forth in claim 1 wherein the product is a feminine wipe, feminine napkin, tampon, or interlabial pad.

9. The wipe as set forth in claim 2 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

10. The wipe as set forth in claim 2 wherein the wipe further comprises a liquid formulation.

11. The wipe as set forth in claim 10 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid formulation) to about 50% (by total weight of the liquid  
5 formulation).

12. A product for promoting the adherence of *Staphylococcus epidermidis* to the surface of skin, the product comprising a substrate and a botanical compound capable of increasing the adherence of *Staphylococcus epidermidis* to the  
5 surface of skin by at least about 50%.

13. The product as set forth in claim 12, wherein the product is a wipe comprising a fibrous wipe substrate.

14. The product as set forth in claim 12, wherein the product is an absorbent article comprising an absorbent substrate.

15. The product as set forth in claim 12 wherein the botanical compound is selected from the group consisting of Bleuet MCF 783 Hydro, Hydrocotyle GR 040, Hydrolactin 2500, Lavendar MCF 1484, Lime Blossom, Lime Blossom Distillate,  
5 Marigold (Calendula), and Sage Special.

16. The product as set forth in claim 12 wherein the botanical compound is selected from the group consisting of Bleuet MCF 783 Hydro, Hydrocotyle GR 040, Hydrolactin 2500, Marigold (Calendula), and Sage Special.

17. The wipe as set forth in claim 13 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

18. The wipe as set forth in claim 13 wherein the wipe further comprises a liquid formulation.

19. The wipe as set forth in claim 18 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid formulation) to about 50% (by total weight of the liquid  
5 formulation).

20. A product for inhibiting the adherence of *Candida albicans* to the surface of skin or mucosa, the product comprising a substrate and a botanical compound capable of inhibiting the adherence of *Candida albicans* to the surface  
5 of skin or mucosa by at least about 50%.

21. The product as set forth in claim 20, wherein the product is a wipe comprising a fibrous wipe substrate.

22. The product as set forth in claim 20, wherein the product is an absorbent article comprising an absorbent substrate.

23. The product as set forth in claim 20 wherein the botanical compound is selected from the group consisting of Ginseng, Glucosamine, and Yucca.

24. The product as set forth in claim 20 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, American Ginseng, Arkin Special, Comfey Leaves, Dong Quai, Echinacea Dry Aq., Glucosamine 99,  
5 Goldenseal, Grape Seed, Grape Seed Extr., Green Tea, Green Tea Conc., Green Tea Extr., Green Tea HS, Hydrolite-5, Lavendar MCF 1484, Marron D'Inde MCF 1972, Marron D'Inde (Horse Chestnut), Pineapple B, Sandal Complex, Soluble Wheat Protein, Yucca 70, and Yucca Extr. Powder 50%.

25. The product as set forth in claim 20 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, Comfey Leaves, Glucosamine 99, Goldenseal, Grape Seed, Green Tea, Green Tea Extr., Hydrolite-5,  
5 Pineapple B, Sandal Complex, Yucca 70, and Yucca Extr. Powder 50%.

26. The product as set forth in claim 20 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, American Ginseng, Comfey Leaves, Dong Quai, Glucosamine 99, Grape Seed, Green Tea Conc., Hydrolite-5,  
5 Lavendar MCF 1484, Marron D'Inde MCF 1972, Marron D'Inde (Horse Chestnut), Pineapple B, Sandal Complex, and Soluble Wheat Protein.

27. The wipe as set forth in claim 21 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

28. The wipe as set forth in claim 21 wherein the wipe further comprises a liquid formulation.

29. The wipe as set forth in claim 28 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid

formulation) to about 50% (by total weight of the liquid  
5 formulation).

30. A product for inhibiting the adherence of *Proteus mirabilis* to the surface of skin or mucosa, the product comprising a substrate and a botanical compound capable of inhibiting the adherence of *Proteus mirabilis* to the surface  
5 of skin or mucosa by at least about 50%.

31. The product as set forth in claim 30, wherein the product is a wipe comprising a fibrous wipe substrate.

32. The product as set forth in claim 30, wherein the product is an absorbent article comprising an absorbent substrate.

33. The product as set forth in claim 30 wherein the botanical compound is selected from the group consisting of Echinacea, Witchhazel, and Yucca.

34. The product as set forth in claim 30 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, Cromoist HYA, Echinacea Dry Aq., Ginkgo Biloba, Grape Seed Extr., Green Tea, Green Tea Extr., Green  
5 Tea HS, Hydrolactin 2500, Hydrolite-5, Hydrosoy 2000 SF, Marron D'Inde (Horse Chestnut), Marron D'Inde MCF 1972, NSLE Lipomicron, Pineapple B, Sandal Complex, Witchhazel GW, Yucca 70, and Yucca Extr. Powder 50%.

35. The product as set forth in claim 30 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, Echinacea Dry Aq., Ginkgo Biloba, Grape Seed Extr., Green Tea, Green Tea Extr., Hydrolactin 2500,  
5 Hydrolite-5, Marron D'Inde (Horse Chestnut), NSLE Lipomicron, Pineapple B, Sandal Complex, Witchhazel GW, Yucca 70, and Yucca Extr. Powder 50%.

36. The product as set forth in claim 30 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, Hydrolactin 2500, Hydrolite-5, Marron D'Inde

(Horse Chestnut), Pineapple B, Sandal Complex, and Witchhazel  
5 GW.

37. The wipe as set forth in claim 31 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

38. The wipe as set forth in claim 31 wherein the wipe further comprises a liquid formulation.

39. The wipe as set forth in claim 38 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid formulation) to about 50% (by total weight of the liquid  
5 formulation).

40. A product for inhibiting the adherence of *Pseudomonas aeruginosa* to the surface of skin or mucosa, the product comprising a substrate and a botanical compound capable of inhibiting the adherence of *Pseudomonas aeruginosa*  
5 to the surface of skin or mucosa by at least about 50%.

41. The product as set forth in claim 40, wherein the product is a wipe comprising a fibrous wipe substrate.

42. The product as set forth in claim 40, wherein the product is an absorbent article comprising an absorbent substrate.

43. The product as set forth in claim 40 wherein the botanical compound is selected from the group consisting of Ceramide Complex, Echinacea Dry Aq., Grape Seed Extr., Green Tea, Green Tea Extr., Hydrolite-5, Nab Willowbark Extr., NSLE  
5 Lipomicron, Pineapple B, Sandal Complex, Soluble Wheat Protein, Yucca 70, and Yucca Extr. Powder 50%.

44. The product as set forth in claim 40 wherein the botanical compound is selected from the group consisting of Ceramide Complex, Hydrolite-5, NSLE Lipomicron, Pineapple B, Sandal Complex, and Soluble Wheat Protein.

45. The wipe as set forth in claim 41 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

46. The wipe as set forth in claim 41 wherein the wipe further comprises a liquid formulation.

47. The wipe as set forth in claim 46 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid formulation) to about 50% (by total weight of the liquid formulation).

48. A product for inhibiting the adherence of *Staphylococcus epidermidis* to the surface of skin, the product comprising a substrate and a botanical compound capable of inhibiting the adherence of *Staphylococcus epidermidis* to the surface of skin by at least about 50%.

49. The product as set forth in claim 48, wherein the product is a wipe comprising a fibrous wipe substrate.

50. The product as set forth in claim 48, wherein the product is an absorbent article comprising an absorbent substrate.

51. The product as set forth in claim 48 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, Arkin Special, Comfey Leaves, Cromoist HYA, Devil's Claw, Echinacea Dry Aq., Gingko Biloba, Goldenseal, Gotu Kola PG 5:1, Grape Seed Extr., Green Tea, Hydrosol 2000 SF, Marron D'Inde (Horse Chestnut), Marron D'Inde MCF 1972, Pineapple B, Soluble Wheat Protein, St. John's Wort W/S, White Mistle Toe, and Yucca 70.

52. The product as set forth in claim 48 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, Comfey Leaves, Cromoist HYA, Devil's Claw, Gotu Kola PG 5:1, Hydrosol 2000 SF, Marron D'Inde (Horse

- 5 Chestnut), Marron D'Inde MCF 1972, Pineapple B, and Soluble Wheat Protein.

53. The wipe as set forth in claim 49 wherein the wipe is a wound care wipe.

54. The wipe as set forth in claim 49 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

55. The wipe as set forth in claim 49 wherein the wipe further comprises a liquid formulation.

56. The wipe as set forth in claim 55 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid formulation) to about 50% (by total weight of the liquid formulation).
- 5 formulation).

57. A product for inhibiting the growth of *Candida albicans* on or around the skin surface, the product comprising a substrate and a botanical compound, wherein the botanical compound has an IC50 value of about 5% or less for *Candida albicans*.
- 5

58. The product as set forth in claim 57, wherein the product is a wipe comprising a fibrous wipe substrate.

59. The product as set forth in claim 57, wherein the product is an absorbent article comprising an absorbent substrate.

60. The product as set forth in claim 57, wherein the botanical compound is selected from the group consisting of Echinacea Dry Aq., Glucosamine 99, Goldenseal, Grape Seed Extr., Green Tea, Green Tea Conc., and Green Tea Extr.

61. The product as set forth in claim 57 wherein the botanical compound is selected from the group consisting of Glucosamine 99 and Green Tea Conc.

62. The wipe as set forth in claim 58 wherein the wipe is a dry wipe and the botanical compound is present in an



amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

63. The wipe as set forth in claim 58 wherein the wipe further comprises a liquid formulation.

64. The wipe as set forth in claim 63 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid formulation) to about 50% (by total weight of the liquid  
5 formulation).

65. A product for inhibiting the growth of *Proteus mirabilis* on or around the skin surface, the product comprising a substrate and a botanical compound, wherein the botanical compound has an IC50 value of about 5% or less for  
5 *Proteus mirabilis*.

66. The product as set forth in claim 65 wherein the product is a wipe comprising a fibrous wipe substrate.

67. The product as set forth in claim 65 wherein the product is an absorbent article comprising an absorbent substrate.

68. The product as set forth in claim 65 wherein the botanical compound is selected from the group consisting of Gingko Biloba, Grape Seed Extr., Hydrolite-5, and Yucca 70.

69. The product as set forth in claim 65 wherein the botanical compound is Hydrolite-5.

70. The wipe as set forth in claim 66 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

71. The wipe as set forth in claim 66 wherein the wipe further comprises a liquid formulation.

72. The wipe as set forth in claim 71 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid

formulation) to about 50% (by total weight of the liquid  
5 formulation).

73. A product for inhibiting the growth of *Pseudomonas aeruginosa* on or around the skin surface, the product comprising a substrate and a botanical compound, wherein the botanical compound has an IC50 value of about 5% or less for  
5 *Pseudomonas aeruginosa*.

74. The product as set forth in claim 73 wherein the product is a wipe comprising a fibrous wipe substrate.

75. The product as set forth in claim 73 wherein the product is an absorbent article comprising an absorbent substrate.

76. The product as set forth in claim 73 wherein the botanical compound is selected from the group consisting of Grape Seed Extr., Green Tea Extr., and Hydrolite-5.

77. The product as set forth in claim 73 wherein the botanical compound is Hydrolite-5.

78. The wipe as set forth in claim 74 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

79. The wipe as set forth in claim 74 wherein the wipe further comprises a liquid formulation.

80. The wipe as set forth in claim 79 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid formulation) to about 50% (by total weight of the liquid  
5 formulation).

81. A product for inhibiting the growth of *Staphylococcus epidermidis* on or around the skin surface, the product comprising a substrate and a botanical compound, wherein the botanical compound has an IC50 value of about 5%  
5 or less for *Staphylococcus epidermidis*.

82. The product as set forth in claim 81 wherein the product is a wipe comprising a fibrous wipe substrate.

83. The product as set forth in claim 81 wherein the product is an absorbent article comprising an absorbent substrate.

84. The product as set forth in claim 81 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, Goldenseal, Grape Seed Extr., Green Tea, and Pineapple B.

85. The product as set forth in claim 81 wherein the botanical compound is selected from the group consisting of Aloe Ferox HS, and Pineapple B.

86. The wipe as set forth in claim 82 wherein the wipe is used for wound care.

87. The wipe as set forth in claim 82 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

88. The wipe as set forth in claim 82 wherein the wipe further comprises a liquid formulation.

89. The wipe as set forth in claim 88 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid formulation) to about 50% (by total weight of the liquid formulation).

90. A product for inhibiting the growth of at least one problem flora on or around the skin surface, the problem flora selected from the group consisting of *Proteus mirabilis*, *Pseudomonas aeruginosa*, and *Candida albicans*, wherein the product comprises a substrate and a botanical compound, the botanical compound selected from the group consisting of Green Tea Extr., Hydrolite-5, Sandal Complex, and Yucca Extr. Powder 50%.

91. The product as set forth in claim 90, wherein the product is a wipe comprising a fibrous wipe substrate.

92. The product as set forth in claim 90, wherein the product is an absorbent article comprising an absorbent substrate.

93. The product as set forth in claim 90 wherein the botanical compound is selected from the group consisting of Hydrolite-5 and Sandal Complex.

94. The wipe as set forth in claim 91 wherein the wipe is a dry wipe and the botanical compound is present in an amount of from about 0.01% (by weight of the treated substrate) to about 50% (by weight of the treated substrate).

95. The wipe as set forth in claim 91 wherein the wipe further comprises a liquid formulation.

96. The wipe as set forth in claim 95 wherein the botanical compound is present in the liquid formulation in an amount of from about 0.01% (by total weight of the liquid formulation) to about 50% (by total weight of the liquid formulation).

97. A product for selectively controlling the balance of flora on the skin, the product comprising:

a) a substrate selected from the group consisting of a fibrous wipe substrate and an absorbent substrate;

b) a first botanical compound that promotes the adherence of *Lactobacillus acidophilus* to the surface of skin or mucosa, the first botanical compound being capable of increasing the adherence of *Lactobacillus acidophilus* to the surface of skin or mucosa by at least about 50%; and

c) a second botanical compound that inhibits the adherence of at least one organism to the surface of skin or mucosa, the organism selected from the group consisting of (i) *Candida albicans*, (ii) *Proteus mirabilis*, (iii) *Pseudomonas aeruginosa*, and (iv) *Staphylococcus epidermidis*, wherein the second botanical compound is capable of

inhibiting the adherence of the organism to the surface of skin or mucosa by at least about 50%.

98. The product as set forth in claim 97 further comprising a third botanical compound that inhibits the growth of at least one organism on or around the skin surface, the organism selected from the group consisting of  
5 (i) *Candida albicans*, (ii) *Proteus mirabilis*, (iii) *Pseudomonas aeruginosa*, and (iv) *Staphylococcus epidermidis*, wherein the third botanical compound has an IC50 value of about 5% or less for *Candida albicans*, *Proteus mirabilis*, *Pseudomonas aeruginosa*, or *Staphylococcus epidermidis*.

99. A product for selectively controlling the balance of flora on the skin, the product comprising:

- a) a substrate selected from the group consisting of a fibrous wipe substrate and an absorbent substrate;
- 5 b) a first botanical compound that promotes the adherence of *Lactobacillus acidophilus* to the surface of skin or mucosa, the first botanical compound being capable of increasing the adherence of *Lactobacillus acidophilus* to the surface of skin or mucosa by at least about 50%; and
- 10 c) a second botanical compound that promotes the adherence of *Staphylococcus epidermidis* to the surface of skin, the second botanical compound being capable of increasing the adherence of *Staphylococcus epidermidis* to the surface of skin by at least about 50%.

100. The product as set forth in claim 99 further comprising a third botanical compound that inhibits the adherence of at least one organism to the surface of skin or mucosa, the organism selected from the group consisting of  
5 (i) *Candida albicans*, (ii) *Proteus mirabilis*, and (iii) *Pseudomonas aeruginosa*, wherein the third botanical compound is capable of inhibiting the adherence of the organism to the surface of skin or mucosa by at least about 50%.

101. The product as set forth in claim 100, further comprising a fourth botanical compound that inhibits the growth of at least one organism on or around the skin surface, the organism selected from the group consisting of  
5 (i) *Candida albicans*, (ii) *Proteus mirabilis*, and (iii) *Pseudomonas aeruginosa*, wherein the fourth botanical compound has an IC50 value of about 5% or less for *Candida albicans*, *Proteus mirabilis*, or *Pseudomonas aeruginosa*.

102. A product for selectively controlling the balance of flora on the skin, the product comprising:

- (a) a substrate selected from the group consisting of a fibrous wipe substrate and an absorbent substrate;
- 5 (b) a first botanical compound that inhibits the adherence of at least one organism to the surface of skin or mucosa, the organism selected from the group consisting of (i) *Candida albicans*, (ii) *Proteus mirabilis*, (iii) *Pseudomonas aeruginosa*, and (iv) *Staphylococcus epidermidis*,  
10 wherein the first botanical compound is capable of inhibiting the adherence of the organism to the surface of skin or mucosa by at least about 50%; and
- (c) a second botanical compound that inhibits the growth of at least one organism on or around the skin surface, the  
15 organism selected from the group consisting of *Candida albicans*, *Proteus mirabilis*, *Pseudomonas aeruginosa*, and *Staphylococcus epidermidis*, wherein the second botanical compound has an IC50 value of about 5% or less for *Candida albicans*, *Proteus mirabilis*, *Pseudomonas aeruginosa*, or  
20 *Staphylococcus epidermidis*.